



SEQUENCE LISTING

<110> ELLIS, JOHN TIMOTHY
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<140> 10/608,436

<141> 2003-06-30

<150> AU PP 9928

<151> 1999-04-21

<150> PCT/AU00/00354

<151> 2000-04-20

<160> 60

<170> PatentIn version 3.2

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<213> Neospora caninum

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35 40 45

Asp Val Val Ala Gln Ser Ser Glu Asp Phe Ser Gly Lys Leu Gln Ala
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Asn Ser Gly Ile Val Ser Phe Gly Asp Ser Ala Ala Gly Ser Gly Ala
65 70 75 80

Phe Asn Ser Met Asp Val Gln Asn Phe Leu Gln Arg Tyr Ala Thr Ser
85 90 95

Lys Met Phe Gly Val Pro Pro His Phe Phe Gln Ser Arg Glu Ser Leu
100 105 110

Arg Val Trp Gly Ala Asp His Leu Thr Asp Pro Met Val Gln Pro Tyr
 115 120 125
 Glu Lys Asp Asp Gln Asn Leu Pro Asn Pro Phe His Val Ser Leu Pro
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 Gly Tyr Ser Pro Ser Leu Cys Lys Tyr Val Leu Thr Lys Gly Glu Lys
 145 150 155 160
 Pro Pro Arg Asp Pro Leu Leu Gly Pro Glu Ile Thr Ile Tyr Pro Pro
 165 170 175
 Thr Trp Ile Pro His Trp Glu Pro Asp Pro Asn Phe Lys Pro Gln Ala
 180 185 190
 Tyr Asn Phe Asn Trp Glu Glu Asn Gly Thr Phe Gln Met Glu Arg Leu
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 Glu Thr Val Gln Ala Leu Val Glu Gln His Arg Phe Ser Asn Asp Tyr
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 Asp Gln Glu Ala Glu Tyr Arg Arg Arg Arg Gln Glu Leu Gly Ser Gln
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 100 105 110

Val Ile Glu Glu Leu Lys Lys Thr Ala Glu Glu Arg Gly Leu Arg Arg
 115 120 125
 Tyr Pro Glu Arg Asp Glu Asp Arg Thr Asp Asp Gln Gln Met Asp Phe
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 Gln Leu Leu Lys Gln Arg Arg Lys Glu Asn Glu Glu Arg Asn Arg Val
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Pro Ser Gly Pro Arg Ser Gly Glu Val Gln Arg Thr Arg Lys Glu Gln
165 170 175

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Asp Gln Asn Leu Pro Asn Pro Phe His Val Ser Leu Pro Gly Tyr Ser
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Pro Ser Leu Cys Lys Tyr Val Leu Thr Lys Gly Glu Lys Pro Pro Arg
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85 90 95
Pro His Trp Glu Pro Asp Pro Asn Phe Lys Pro Gln Ala Tyr Asn Phe
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 35 40 45
 Thr Val Gln Ala Leu Val Glu Gln His Arg Phe Ser Asn Asp Tyr Asp
 50 55 60
 Gln Glu Ala Glu Tyr Arg Arg Arg Arg Gln Glu Leu Gly Ser Gln Thr
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 Pro Glu Glu Ile Glu Glu Ala Lys Arg Lys Tyr Arg Lys Gln Val Leu
 85 90 95
 Lys Glu Gln Gln Glu Asp Glu Glu Leu Lys Lys Lys Thr Asp Ala Val
 100 105 110

Ile Glu Glu Leu Lys Lys Thr Ala Glu Glu Arg Gly Leu Arg Arg Tyr
 115 120 125

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 <213> Neospora caninum

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 <213> *Neospora caninum*

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<212> DNA

<213> Neospora caninum

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<212> PRT
<213> Toxoplasma gondii

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Val Gly Gly Lys Gly Glu His Thr Pro Pro Leu Pro Asp Glu Arg Gln
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65          70          75          80

Gln Leu Phe Arg Lys Phe Leu Lys Phe Ala Glu Asn Val Gly His His
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Ser Glu Lys Ala Phe Lys Lys Ala Lys Val Val Ala Glu Lys Gly Phe
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Thr Ala Ala Lys Thr His Thr Val Arg Gly Phe Lys Val Ala Lys Glu
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Ala Ala Gly Arg Gly Met Val Thr Val Gly Lys Lys Leu Ala Asn Val
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Glu Ser Asp Arg Ser Thr Thr Thr Thr Gln Ala Pro Asp Ser Pro Asn
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Gly Leu Ala Glu Thr Glu Val Pro Val Glu Pro Gln Gln Arg Ala Ala
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His Val Pro Val Pro Asp Phe Ser Gln
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<210> 15
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<220>
 <223> Description of Artificial Sequence: PCR primer

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<210> 16
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 16
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<210> 17
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 <213> Artificial Sequence

<220>
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<210> 18
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18

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<211> 20
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 21
gcctcaagaa tttcctcagc

20

<210> 22
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 22
 ggtaggttac cacaacttgc 20

<210> 23
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 23
 gcaattgcat tgagcatc 18

<210> 24
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 24
 acggatggat ccgttcacgg ggaaacgttg g 31

<210> 25
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 25
 acgtcagaat tctaacgcca tacacaccgt 30

<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 26
gaggtatata ttaatgtatc g 21

<210> 27
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 27
cgtacgtcta gagccaccat gttcacgggg aaacgttgg 39

<210> 28
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 28
acgtcaggat ccgcacgcac acaaagccca 30

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 29
gctgacagac taacagactg 20

<210> 30
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 30
 aactagaagg cacagcag

18

<210> 31
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 31
 cgtacgtcta gagccaccat ggtcggcgcc gcagtcgta

39

<210> 32
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 32
 acgtcaggat ccttcacggg gaaacggttg

30

<210> 33
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Signal peptide

<400> 33
 Trp Ile Leu Val Val Ala Val Gly Ala Leu Val Gly Ala
 1 5 10

<210> 34
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 34
accgtggcag tccgctgt

18

<210> 35
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 35
tgggctgatg accccgtc

18

<210> 36
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 36
ccaaggcagg agaggcac

18

<210> 37
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 37
accactgctc aactac

16

<210> 38
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 38
gcgcgtctag atagca

16

<210> 39
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 39
gcgcgtctag atagca

16

<210> 40
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 40
agcctatctc tgcgta

16

<210> 41
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 41
agctgaccac ctcaccgat

19

<210> 42
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 42
tgaagtccca agcgtcctc

19

<210> 43
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 43
actctccgtc tctctctgc

19

<210> 44
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 44
ccacgccctg aactgact

18

<210> 45
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 45
gccttggtga ggatgga

17

<210> 46
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 46
 tgctggatcg aagac 15

<210> 47
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 47
 aggcgggtaa atggtaa 17

<210> 48
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 48
 acgcatggat ccggatccta aagtggagag t 31

<210> 49
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PCR primer

<400> 49
 acgtatgaat tcccaagagg aaaacaatgt 30

<210> 50
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 50
gaggtatata ttaatgtatc g

21

<210> 51
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 51
acgcatgaat tctatggatc ctaaagtgga gagt

34

<210> 52
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 52
catgacctcg aggacgcgcg gaacaccgta

30

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 53
ttaatacgac tcactatagg g

21

<210> 54
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 54
gctagttatt gctcagcg 18

<210> 55
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 55
acgtatggat ccgttttgtc aggtgttctt g 31

<210> 56
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 56
acgtatggat ccgaacaagc ccgggccgtt t 31

<210> 57
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 57
acgtataagc tttgccttct tgcgggccgc ga 32

<210> 58
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 58
atatactact ccctgtgagt t

21

<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer

<400> 59
gtaatctgaa agcgaataga g

21

<210> 60
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide motif

<400> 60
Ala Tyr Pro Tyr
1